CALFED Alternatives evaluation for striped bass -page 1

Diversion Effects on Striped Bass- 1950 Level of Development

| Diversion Effects of Striped base- 1900 | TEAR! OI DEAC | Cometic | | | | | | | |
|---|---------------|----------|-----------------|------------------|--------------|---------------|-----------|-----------|----------|
| | Oct-Nov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments |
| Entrainment | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Hydrodynamics | 3 | 2 | 2 | 2 | 2 | . 2 | 2 | 2 | |
| Predation | 3 | 3 | . 3 | 3 | 3 | 3 | 3 | 3 | |
| Handling | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Food supply | 1 | 1 | 1 | 1 | 1 | 1 | _ 1 | 1 | |
| Shallow/ nearshore habitat | 0 | 0 | 0 | 0 | 0 | 0 | · 0 | 0 | |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WQ (salinity) | 0 | 1 | 0 | 0 | . 0 | 0 | 0 | . 0 | |
| Agricultural diversions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Transport-Sacramento River | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | |
| life stage | juvenile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | larvae/juveni | juveniles | juveniles | |
| | | | | | | | | | |
| , | | | | | l | <u> </u> | 1 | | |

Diversion Effects on Striped Bass- 1970's Level of Development

| | Oct-Nov | Dec-Mar | Apr | May | June | July | Aug | Sep | comments | | |
|----------------------------|----------|----------------------|-----------------|------------------|--------------|---------------|-----------|-----------|----------|--|--|
| Entrainment | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | | | |
| Hydrodynamics | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | | | |
| Predation , | 1 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | | | |
| Handling | 1 | 0 | 1 | -1 | -1 | -1 | -1 | -1 | | | |
| Food supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Shallow/ nearshore habitat | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| WQ (salinity) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Agricultural diversions | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Transport-Sacramento River | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | | | |
| | | | | | | | | | | | |
| | | <u> </u> | <u>.</u> | | <u></u> | | | | | | |
| life stage | juvenile | juvenil e | eggs and larvae | egg s and larvae | eggs and lar | larvae/juveni | juveniles | juveniles | · | | |

CALFED alternatives evaluation for striped bass - page 2.

Diversion Effects on Striped bass- Existing Conditions -page 2

| | Oct-Nov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments |
|----------------------------|----------|---------------------------------------|-----------------|------------------|--------------|---------------|-----------|-----------|---------------------------------------|
| Entrainment | 0 | 0 | 0 | | 0 | | | | |
| Hydrodynamics | 0 | 0 | | <u> </u> | 1 | -0 | <u>`</u> | 0 | |
| Predation | 0 | 0 | <u> </u> | 1 | 0 | 0 | | 0 | |
| Handling | 0 | 0 | | 0 | 0 | 0 | | 0 | |
| Food supply | 0 | 0 | | | - 0 | | | 0 | |
| Shallow/ nearshore habitat | 0 | | 0 | | 0 | 0 | 0 | | |
| Water quality (toxics) | 0 | 0 | | | 0 | 0 | 0 | | **** |
| WQ (salinity) | 0 | | | <u> </u> | . 0 | <u>-</u> | 0 | 0 | |
| Agricultural diversions | 0 | · · · · · · · · · · · · · · · · · · · | | 0 | | | 0 | 0 | |
| Transport-Sacramento River | 0 | 0 | | 0 | | | 0 | 0 | |
| | | | | | 0 | 0 | 0 | 0 | |
| | | | | | | | | | |
| | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| life stage | juvenile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | larvae/juveni | juveniles | juveniles | |

Diversion Effects on Striped Bass - No-Action Conditions

| · · · · · · · · · · · · · · · · · · · | Oct-Nov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments |
|---------------------------------------|----------|----------|-----------------|------------------|--------------|------------------------|----------|-----------|---------------------------|
| Entrainment | | 0 | 0 | 0 | 0 | -1 | -1 | | |
| Hydrodynamics | -1 | 0 | 0 | | 0 | | -1 | | presumes dec-mar winter : |
| Predation | 0 | 0 | . 0 | 0 | | | | -1 | |
| Handling | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | - 0 | |
| Food supply | 0 | 0 | 0 | 0 | 0 | 0 | <u> </u> | 0 | |
| Shallow/ nearshore habitat | 0 | 0 | 0 | 9 | 0 | U | 0 | 0 | |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | |
| WQ (salinity) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural diversions | | | <u> </u> | <u>V</u> | <u> </u> | Ų | 0 | 0 | |
| Transport-Sacramento River | 0 | 0 | 0 | 0 | 0 | | | | |
| | | | | | | | 0 | 0 | |
| | | | | | | | | | |
| life stage | juvenile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | la a sa a fi sa sa a f | | juveniles | |

CALFED alternatives- evaluation of striped bass- page 3

Diversion Effects on Striped Bass - Common Programs

| | Oct-I | Vov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments | ļ |
|----------------------------|-------|-------|----------|-----------------|------------------|--------------|---------------|-----------|-----------|---------------------------|--------|
| Entrainment | 0? | Unkno | | 0 | 0 | 0 | -1 | | | presumes dec-mar winter n | un cri |
| Hydrodynamics | 0? | Unkno | 0 | 0 | 0 | 0 | -1 | | | | |
| Predation | | 0 | 0 | 0 | 0 | 0 | 0 | | | | ĺ |
| Handling | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Food supply | | 0 | 0 | 0 | 0 | 0 | 0 | | | | İ |
| Shallow/ nearshore habitat | | 0 | 0 | 0 | 0 | 0 | 0 | , | | | ĺ |
| Water quality (toxics) | | 0 | 0 | 0 | 0 | 0 | 0 | | | | ĺ |
| WQ (salinity) | | 0 | 0 | . 0 | 0 | 0 | 0 | | | | ĺ |
| Agricultural diversions | | 0 | | | | | | | | | l |
| Transport-Sacramento River | | 0 | 0 | 0 | 0 | 0 | 0 | | | | 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | ١. |
| life stage | juver | nile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | larvae/juveni | juveniles | juveniles | | ĺ |

Diversion Effects on Striped Bass - Alternative 1

| | Oct-Nov | Dec- Mar | Apr | Мау | June | July | Aug | Sep | comments |
|----------------------------|----------|----------|---------------------|---------------------|--------------|---------------|------------|-----------|---------------------------|
| Entrainment | 1 | 1 | 0 *winter run crit. | 0 *winter run crit. | 1 | 1 | 1 | 1 | presumes dec-mar winter n |
| Hydrodynamics | 1 | 1 | 0 *winter run crit. | 0 *winter run crit. | -1 | -1 | -1 | -1 | · |
| Predation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Handling , | -1 | 0 | 0 *winter run crit. | 0 *winter run crit. | -1 | -1 | -1 | -1 | |
| Food supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Shallow/ nearshore habitat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WQ (salinity) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural diversions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Transport-Sacramento River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | |
| | | | | | | | | | |
| life stage | juvenile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | larvae/iuveni | iuveniles. | juveniles | |

CALFED alternatives- evaluation of striped bass- page 4

Diversion Effects on Striped Bass - Alternative 2

| | Oct-Nov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments |
|----------------------------|----------|----------|-----------------|------------------|--------------|---------------|-----------|-----------|---------------------------|
| Entrainment | 1 | 1 | -1 | -1 | -1 | 1 | 1 | 1 | presumes dec-mar winter r |
| Hydrodynamics | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Predation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | . 2 | |
| Handling | 1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | · |
| Food supply | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | |
| Shallow/ nearshore habitat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| VQ (salinity) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Agricultural diversions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Transport-Sacramento River | 0 | 0 | -2 | -2 | -2 | 0 | 0 | 0 | potential major impact |
| ife stage | juvenile | juvenile | eggs and larvae | egg s and larvae | eggs and lar | larvae/juveni | juveniles | juveniles | |
| | | | and adults | > | | | | | |

Diversion Effects on Striped Bass- Alternative 3

| | Oct-Nov | Dec- Mar | Apr | May | June | July | Aug | Sep | comments | 7 |
|----------------------------|----------|----------|-----------------|------------------|--------------|---------------|-----------|-----------|-------------------------|------|
| Entrainment | 1 | 1 | -1 | -1 | -1 | . 1 | 1 | 1 | presumes dec-mar winter | run. |
| Hydrodynamics | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 7 |
| Predation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 1 |
| Handling | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | | 1 |
| Food supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| Shallow/ nearshore habitat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| Water quality (toxics) | 0 | 0 | 0 | 0 | 0 | .0 | 0 | 0 | | 1 |
| WQ (salinity) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| Agricultural diversions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 1 |
| Transport-Sacramento River | 0 | 0 | -2 | -2 | -2 | 0 | 0 | 0 | | 1 |
| | | | | | | | | | |] |
| life stage | iuvenile | iuvenile | eggs and larvae | egg s and larvae | eggs and lar | lanvae/irveni | i veniles | iuveniles | | 4 |

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